

## CLAIMS

What is claimed is:

Sub A1  
5 1. An etchant solution which is selective of borophosphosilicate glass to tetraethyl orthosilicate, said etchant solution comprising an organic acid and a fluoride-containing solution.

Sub E2  
2. The etchant of claim 1, wherein said organic acid is selected from the group consisting of acetic acid, formic acid, and oxalic acid.

10 3. The etchant of claim 1, wherein said fluoride-containing solution is selected from the group consisting of hydrofluoric acid and ammonium fluoride.

Sub A2  
15 4. The etchant of claim 1, wherein said organic acid comprises 99.7% acetic acid by weight in water and said fluoride-containing solution comprises 49% hydrofluoric acid by weight in water.

5. The etchant of claim 4, wherein said acetic acid is in a volumetric ratio with said hydrofluoric acid from between about 1:1 to 500:1.

Sub B3  
20 6. The etchant of claim 5, wherein said acetic acid is in a volumetric ratio with said hydrofluoric acid at about 10:1 to about 100:1.

Sub A3  
25 7. The etchant of claim 1, wherein said organic acid comprises 99.7% acetic acid by weight in water and said fluoride-containing solution comprises 40% ammonium fluoride acid by weight in water.

Sub B5  
Add Be  
8. The etchant of claim 1, wherein said etchant solution includes a selectivity ratio of borophosphosilicate glass to tetraethyl orthosilicate between about 27:1 and 55:1.